



LB24 SERIES INDUSTRIAL FIBER-OPTIC ILLUMINATOR

High-Intensity Arc Lamp Technology

USHIO's Sōlarc® Fiber-Optic Illuminators use patented Sōlarc® lamp technology. Sōlarc® Illuminators combine the efficiencies of high-pressure metal halide arc lamps, precision miniature lamp construction and precise optical alignment to deliver unequaled fiber illumination performance and value.

Brilliant White Light

Unlike halogen-based light sources, Sōlarc® Illuminators deliver intense, brilliant white light, typically with a color temperature greater than 5,000K — comparable to true daylight.

Long Life and Cost Effective

Sōlarc® lamp technology is at the heart of the illuminator, requiring only 24 watts of energy and typically lasting about 500 hours (median life). Comparable halogen-based illuminators require 150 watts of power and may have average rated lifetimes between 40-50 hours. Sōlarc® lamps consume considerably less energy and last nearly 10-12 times longer, assuring lower cost of ownership.

Superior Fiber-Optic Coupling

Available with an ACMI and optional industry-standard optical couplers, precisely aligned, highly efficient Sōlarc® lamps provide superior light coupling into small and miniature fiber bundles. This allows the lamps to deliver significantly more light at a fraction of the size and wattage when compared to halogen alternatives.

Flexible Design

The LB24 series is available with a variety of fiberoptic couplers. The available power supply is rated for operation on voltages between 100 VAC and 240 VAC and frequencies from 50 Hz to 60 Hz.

Enhanced Features

- Internal Thermal Cutout
- Double Insulated
- Low Electrical Noise
- Cooler Operation
- Positive-Lock ACMI Fiber Adapter
- Full-Off Light Attenuation
- Medical-Grade UV/IR Filter Included
- Threaded Input Port—Allows for Custom Adapters
- Improved Lamp Retention System

Conforms to Industrial Standards

The LB24 series meets the standards identified in the accompanying specifications. Sōlarc® Illuminators are the solution for applications that require intense, white illumination, such as lighting for borescopes, fiberscopes, UV/NDT inspection, fluorescence or microscopes.

Styles Available



LB24-NO
No Adapter
Allows fiber adapter
design flexibility

LB24-N4
ACMI Adapter



LB24 Specifications

| | | |
|--|---|--|
| Illumination System Lamp Light Output Color Temperature Lamp Life (Median) Integral Iris | Sölarc® Lamp Technology 590 Lumens (4 mm [0.16"] glass rod) 5,000K 500 Hrs 0%–100% attenuation | |
| Physical Dimensions Weight | 147.3 mm [5.8"] length x 88.9 mm [3.5"] width x 71.1 [2.8"] height 1.0 kg (2.2 lbs)—includes power supply 0.5 kg (1.2 lbs)—device only | |
| Electrical Power Supply Input Voltage Input Current Output Device Only Input Voltage Connector Type | 100 to 240 VAC, 50-60 Hz 1 A @ 100 VAC 12 VDC, 3.4 A 12 VDC 2.1 mm [0.08"] x 5.5 mm [0.22"] Center Positive Jack (ref. Switchcraft 722A) | |
| Environmental Temperature Humidity | 10°C (50°F) to 30°C (86°F) 15% to 95% RH noncondensing | |
| Approvals | EN/IEC 61010-1 CAN/CSA C22.2 No. 61010-1 CONFORMS TO: UL STD 61010-1 | |
| Ordering Information Part Number LB24-N4 LB24-NO LBM-PS-00 LBM-PS-01 LB-CLP AL-1824 704904 704905 704906 50160 50159 | Description Illuminator/ACMI Adapter Illuminator/No Adapter Power Supply—North American Power Supply—International Cigarette Lighter Power Plug Replacement Sölarc® Lamp AC Power Supply Cord—Europe AC Power Supply Cord—Australia AC Power Supply Cord—UK Olympus Adapter (screw-on) Storz Adapter (screw-on) | Available Power Supplies  LBM-PS-00 included with LB24MS00-004-00. North American-Style Plug LBM-PS-01 included with LB24MS00-004-01. IEC Adapter to allow a variety of cords (sold separately) |

LB24 (All measurements in mm [inches].)

